

L Number	Hits	Search Text	DB	Time stamp
1	2	benzo with imidazo with quinoxaline	USPAT; US-PGPUB	2003/04/17 11:04
2	6	benzo with imidazo with quinoline	USPAT; US-PGPUB	2003/04/17 11:05
3	4	benzo with imidazo with (quinoxaline or quinoxaliny)	USPAT; US-PGPUB	2003/04/17 11:04
4	6	benzo with imidazo with (quinoline or quinolinyl)	USPAT; US-PGPUB	2003/04/17 11:05
5	2	benzo with pyrazolo with (quinazolin or quinazolinyl)	USPAT; US-PGPUB	2003/04/17 11:06
6	2	benzo with thiazolo with (quinoline or quinolinyl)	USPAT; US-PGPUB	2003/04/17 11:06

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ENERGY, INSPEC  
NEWS 20 Feb 13 CANCERLIT is no longer being updated  
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NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation  
NEWS 25 Feb 26 PCTFULL now contains images  
NEWS 26 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results  
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NEWS 28 Mar 20 EVENTLINE will be removed from STN  
NEWS 29 Mar 24 PATDPAFULL now available on STN  
NEWS 30 Mar 24 Additional information for trade-named substances without  
structures available in REGISTRY  
NEWS 31 Mar 24 Indexing from 1957 to 1966 added to records in CA/CAPLUS  
NEWS 32 Apr 11 Display formats in DGENE enhanced  
NEWS 33 Apr 14 MEDLINE Reload  
  
NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003  
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FILE 'HOME' ENTERED AT 11:17:50 ON 16 APR 2003

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 11:17:55 ON 16 APR 2003

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STRUCTURE FILE UPDATES: 15 APR 2003 HIGHEST RN 503084-53-5

DICTIONARY FILE UPDATES: 15 APR 2003 HIGHEST RN 503084-53-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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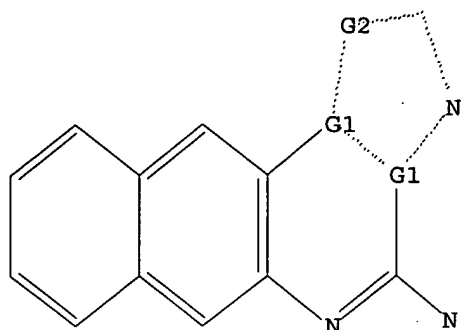
L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

09/ 953,471



G1 C,N

G2 C,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 11:18:17 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 60 TO ITERATE

100.0% PROCESSED 60 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 736 TO 1664

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 ful

FULL SEARCH INITIATED 11:18:22 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1092 TO ITERATE

100.0% PROCESSED 1092 ITERATIONS

10 ANSWERS

SEARCH TIME: 00.00.01

L3 10 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

148.15

148.36

FILE 'CAPLUS' ENTERED AT 11:18:29 ON 16 APR 2003

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FILE COVERS 1907 - 16 Apr 2003 VOL 138 ISS 16  
FILE LAST UPDATED: 15 Apr 2003 (20030415/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 3 L3

=> d l4 1- ibib abs hitstr

YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:77552 CAPLUS

DOCUMENT NUMBER: 138:131112

TITLE: Methods of treating inflammatory and immune diseases using inhibitors of I.kappa.B kinase (IKK)

INVENTOR(S): Burke, James R.; Townsend, Robert M.; Qiu, Yuping; Zusi, Fred Christopher; Nadler, Steven G.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 38 pp., Cont.-in-part of U.S. Ser. No. 965,977.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003022898	A1	20030130	US 2002-62847	20020201
US 2002072523	A1	20020613	US 2001-965977	20010927
PRIORITY APPLN. INFO.:			US 2000-223304P	P 20001003
			US 2001-265853P	P 20010201
			US 2001-965977	A2 20010927

OTHER SOURCE(S): MARPAT 138:131112

AB The present invention describes methods of preventing and treating inflammatory and immune-related diseases or disorders using inhibitors of I.kappa.B kinase (IKK). Also described are IKK inhibitors effective for the prevention and treatment of inflammatory and immune-related diseases or disorders, as demonstrated in vivo. Further embodiments of the invention relate to specific IKK inhibitors, 4(2'-aminoethyl)amino-1,8-dimethylimidazo(1,2-a) quinoxaline and related compds.

IT 409369-76-2P 409369-77-3P 409369-78-4P  
409369-79-5P 409369-80-8P 409369-81-9P  
409369-82-0P 409369-83-1P

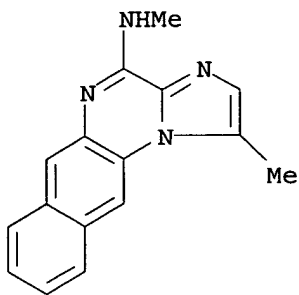
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(treating inflammatory and immune diseases using inhibitors of IkB kinase)

RN 409369-76-2 CAPLUS

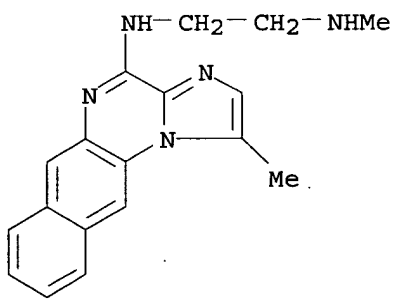
CN Benz[g]imidazo[1,2-a]quinoxalin-4-amine, N,1-dimethyl- (9CI) (CA INDEX NAME)

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RN 409369-77-3 CAPLUS

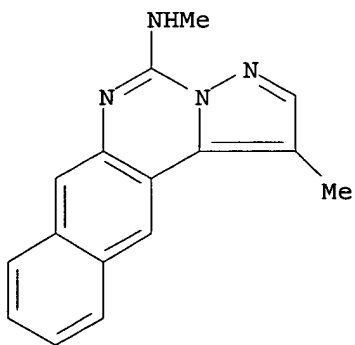
CN 1,2-Ethanediamine, N-methyl-N'-(1-methylbenz[g]imidazo[1,2-a]quinoxalin-4-yl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 409369-78-4 CAPLUS

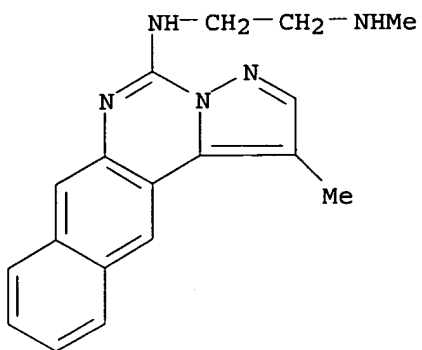
CN Benzo[g]pyrazolo[1,5-c]quinazolin-5-amine, N,1-dimethyl- (9CI) (CA INDEX NAME)



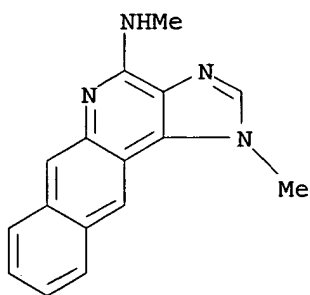
RN 409369-79-5 CAPLUS

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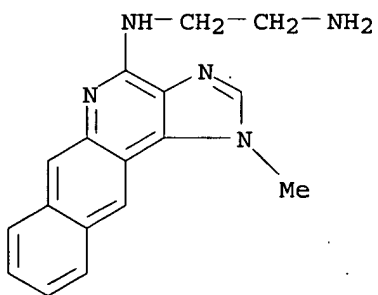
09/ 953,471



RN 409369-80-8 CAPLUS  
CN 1H-Benz[g]imidazo[4,5-c]quinolin-4-amine, N,1-dimethyl- (9CI) (CA INDEX NAME)

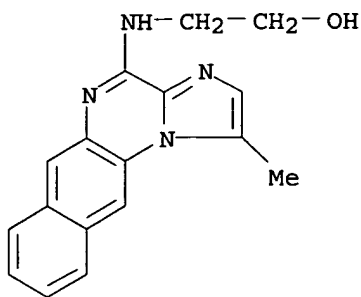


RN 409369-81-9 CAPLUS  
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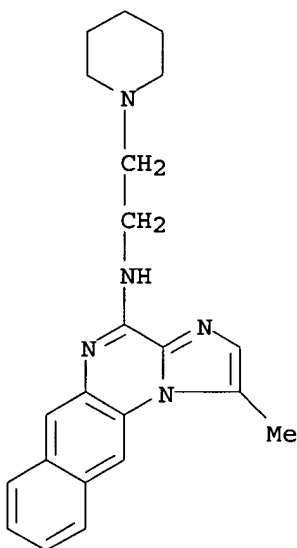


RN 409369-82-0 CAPLUS  
CN Ethanol, 2-[(1-methylbenz[g]imidazo[1,2-a]quinoxalin-4-yl)amino]- (9CI) (CA INDEX NAME)

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RN 409369-83-1 CAPLUS  
CN Benz[g]imidazo[1,2-a]quinoxalin-4-amine, 1-methyl-N-[2-(1-piperidinyl)ethyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:594634 CAPLUS  
DOCUMENT NUMBER: 137:154947  
TITLE: Method of treating inflammatory and immune diseases using 4-amino substituted imidazoquinoxaline, benzopyrazoloquinazoline, benzoimidazoquinoxaline and benzoimidazoquinoline inhibitors of I.kappa.b kinase (IKK)  
INVENTOR(S): Burke, James R.; Nadler, Steven; Qiu, Yuping; Townsend, Robert M.; Zusi, Fred Christopher  
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA  
SOURCE: PCT Int. Appl., 100 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 3  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002060386	A2	20020808	WO 2002-US3060	20020201



09/ 953,471

WO 2002060386 A3 20021010

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2002072523 A1 20020613 US 2001-965977 20010927

PRIORITY APPLN. INFO.:

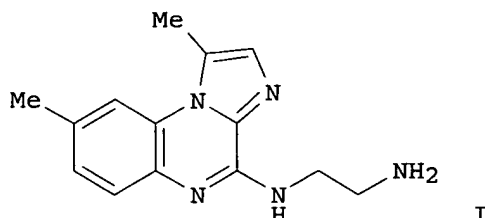
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US 2001-965977 A 20010927

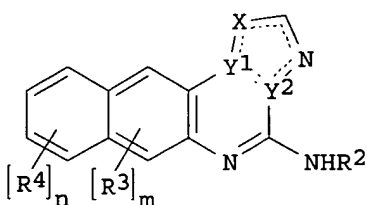
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OTHER SOURCE(S): MARPAT 137:154947

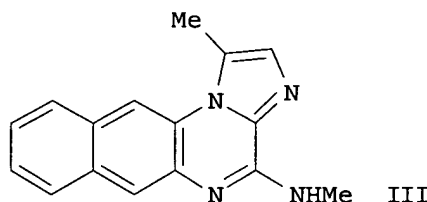
GI



I



II



III

AB The title compd. I and compds. II [X = NR1, CR1, S; Y1, Y2 = N, C (with provisos); R1 = H, halo, alkyl, etc.; R2 = alkyl, alkenyl, alkoxy, etc.; R3, R4 = halo, alkyl, NO2, etc.; m, n = 0-2], useful in preventing and treating inflammatory and immune-related diseases or disorders using inhibitors of I.kappa.B kinase (IKK), were prepd. Thus, reacting 4-chloro-1-methylbenzo[g]imidazo[1,2-a]quinoxaline (prepn. given) with MeNH2 afforded 69% III which showed IC50 of 0.23 .mu.M against IKK-1.

IT 409369-76-2P 409369-78-4P 409369-79-5P  
409369-80-8P 409369-81-9P 409369-82-0P  
409369-83-1P 445430-60-4P

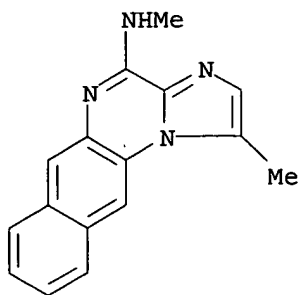
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(method of treating inflammatory and immune diseases using 4-amino substituted imidazoquinoxaline, benzopyrazoloquinazoline, benzoimidazoquinoxaline and benzoimidazoquinoline inhibitors of I.kappa.b kinase (IKK))

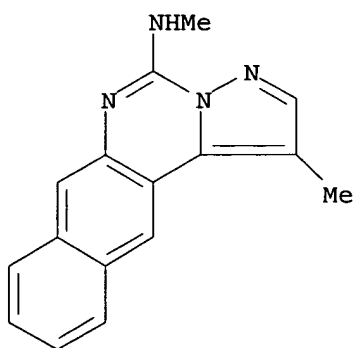
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CN Benz [g]imidazo[1,2-a]quinoxalin-4-amine, N,1-dimethyl- (9CI) (CA INDEX NAME)

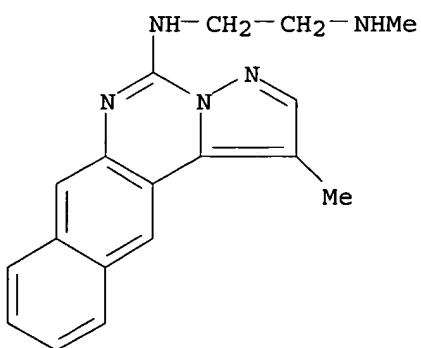
09/ 953,471



RN 409369-78-4 CAPLUS  
CN Benzo[g]pyrazolo[1,5-c]quinazolin-5-amine, N,1-dimethyl- (9CI) (CA INDEX NAME)

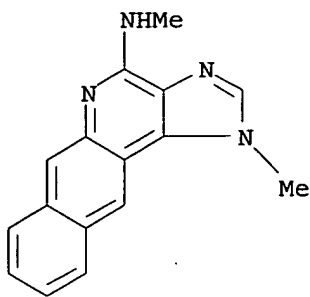


RN 409369-79-5 CAPLUS  
CN 1,2-Ethanediamine, N-methyl-N'-(1-methylbenzo[g]pyrazolo[1,5-c]quinazolin-5-yl)- (9CI) (CA INDEX NAME)



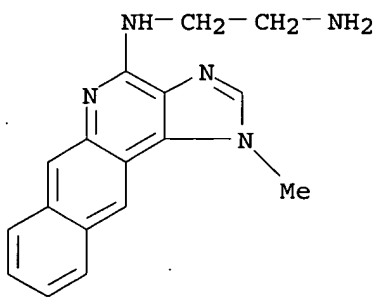
RN 409369-80-8 CAPLUS  
CN 1H-Benz[g]imidazo[4,5-c]quinolin-4-amine, N,1-dimethyl- (9CI) (CA INDEX NAME)

09/ 953,471



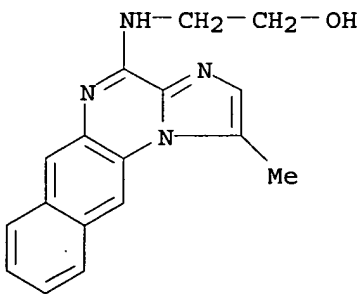
RN 409369-81-9 CAPLUS

CN 1,2-Ethanediamine, N-(1-methyl-1H-benz[g]imidazo[4,5-c]quinolin-4-yl) - (9CI) (CA INDEX NAME)



RN 409369-82-0 CAPLUS

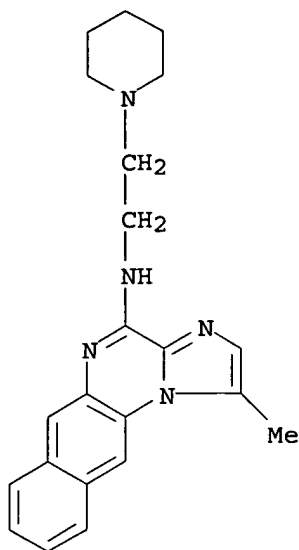
CN Ethanol, 2-[(1-methylbenz[g]imidazo[1,2-a]quinoxalin-4-yl)amino] - (9CI) (CA INDEX NAME)



RN 409369-83-1 CAPLUS

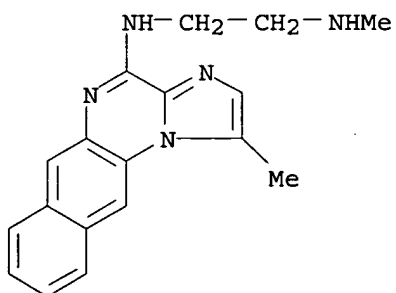
CN Benz[g]imidazo[1,2-a]quinoxalin-4-amine, 1-methyl-N-[2-(1-piperidinyl)ethyl] - (9CI) (CA INDEX NAME)

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RN 445430-60-4 CAPLUS

CN 1,2-Ethanediamine, N-methyl-N'-(1-methylbenz[g]imidazo[1,2-a]quinoxalin-4-yl)-, hydrochloride (9CI) (CA INDEX NAME)



● x HCl

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:275989 CAPLUS

DOCUMENT NUMBER: 136:309937

TITLE: Preparation of amino-substituted tetracyclic compounds as antiinflammatory agents

INVENTOR(S): Beaulieu, Francis; Ouellet, Carl; Belema, Makonen; Qiu, Yuping; Yang, Xuejie; Zusi, Fred C.

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

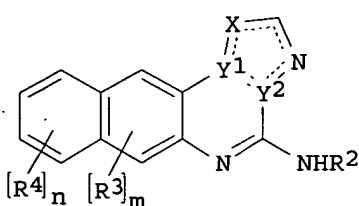
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

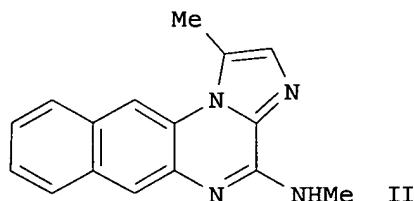
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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09/ 953,471

WO 2002028860      A2      20020411      WO 2001-US42387      20010927  
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CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,  
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,  
US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
AU 2002011827      A5      20020415      AU 2002-11827      20010927  
PRIORITY APPLN. INFO.:      US 2000-223304P      P      20001003  
WO 2001-US42387      W      20010927  
OTHER SOURCE(S):      MARPAT 136:309937  
GI



I



II

AB The title compds. [I; X = NR1, CR1, S; Y1, Y2 = N, C, provided that (a) when X = CR1, at least one of Y1 and Y2 = N, and (b) when one of Y1 and Y2 = C, the other of Y1 and Y2 = N and/or X = NR1 or S, so that ring A defines a 5-membered heteroaryl ring having at least two heteroatoms; R1 = H, halo, alkyl, etc.; R2 = alkyl, alkenyl, alkoxy, etc.; R3, R4 = halo, alkyl, NO2, etc.; m, n = 0-2] and their pharmaceutically-acceptable salts, useful in treating inflammatory and immune diseases and disorders, were prepd. Thus reacting 4-chloro-1-methylbenzo[g]imidazo[1,2-a]quinoxaline (prepn. given) with MeNH2 (40% in H2O) in THF afforded 69% II. The exemplified compds. I showed IC50 values of < 9 .mu.M against TNF.alpha. prodn.

IT 409369-76-2P 409369-77-3P 409369-78-4P  
409369-79-5P 409369-80-8P 409369-81-9P  
409369-82-0P 409369-83-1P 409369-84-2P

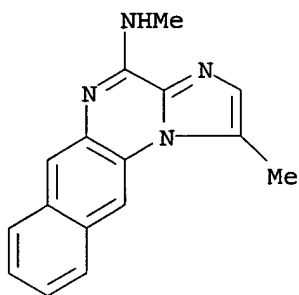
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of amino-substituted tetracyclic compds. as antiinflammatory agents)

RN 409369-76-2 CAPLUS

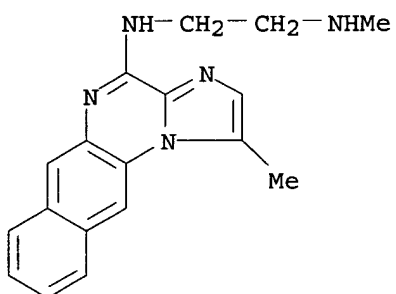
CN Benz [g]imidazo[1,2-a]quinoxalin-4-amine, N,1-dimethyl- (9CI) (CA INDEX NAME)

09/ 953,471



RN 409369-77-3 CAPLUS

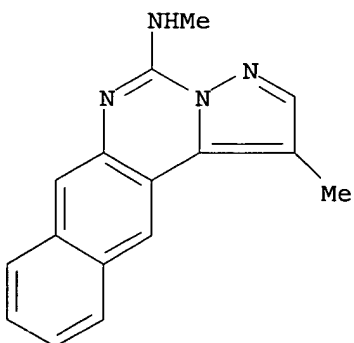
CN 1,2-Ethanediamine, N-methyl-N'-(1-methylbenz[g]imidazo[1,2-a]quinoxalin-4-yl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 409369-78-4 CAPLUS

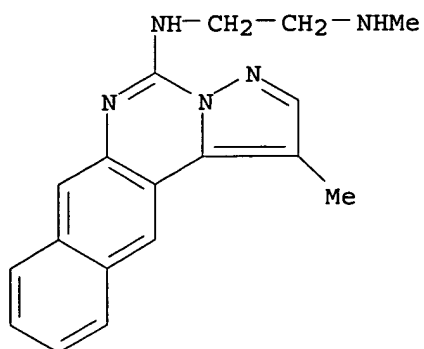
CN Benzo[g]pyrazolo[1,5-c]quinazolin-5-amine, N,1-dimethyl- (9CI) (CA INDEX NAME)



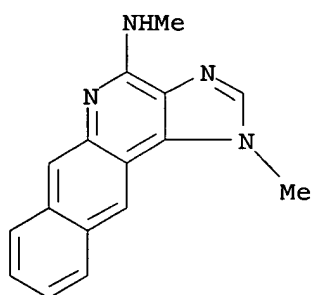
RN 409369-79-5 CAPLUS

CN 1,2-Ethanediamine, N-methyl-N'-(1-methylbenzo[g]pyrazolo[1,5-c]quinazolin-5-yl)- (9CI) (CA INDEX NAME)

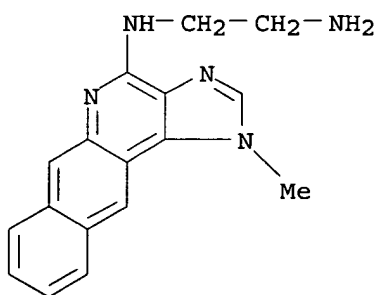
09/ 953,471



RN 409369-80-8 CAPLUS  
CN 1H-Benz[g]imidazo[4,5-c]quinolin-4-amine, N,1-dimethyl- (9CI) (CA INDEX NAME)

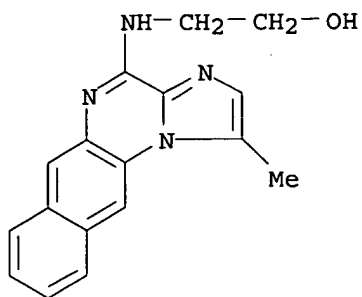


RN 409369-81-9 CAPLUS  
CN 1,2-Ethanediamine, N-(1-methyl-1H-benz[g]imidazo[4,5-c]quinolin-4-yl)- (9CI) (CA INDEX NAME)



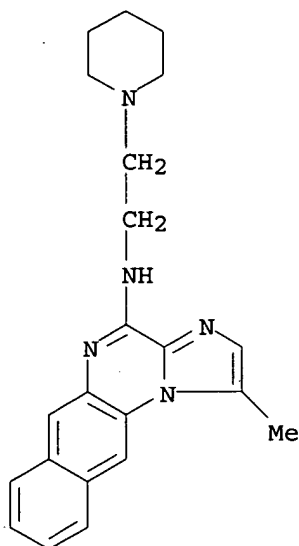
RN 409369-82-0 CAPLUS  
CN Ethanol, 2-[(1-methylbenz[g]imidazo[1,2-a]quinoxalin-4-yl)amino]- (9CI) (CA INDEX NAME)

09/ 953,471



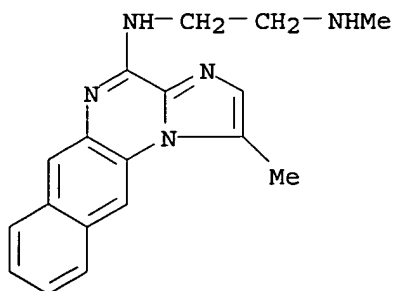
RN 409369-83-1 CAPLUS

CN Benz[g]imidazo[1,2-a]quinoxalin-4-amine, 1-methyl-N-[2-(1-piperidinylethyl)]- (9CI) (CA INDEX NAME)



RN 409369-84-2 CAPLUS

CN 1,2-Ethanediamine, N-methyl-N'-(1-methylbenz[g]imidazo[1,2-a]quinoxalin-4-yl)- (9CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 11:17:50 ON 16 APR 2003)

FILE 'REGISTRY' ENTERED AT 11:17:55 ON 16 APR 2003

L1                   STRUCTURE UPLOADED

L2                   0 S L1

L3                   10 S L1 FUL

FILE 'CAPLUS' ENTERED AT 11:18:29 ON 16 APR 2003

L4                   3 S L3

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

14.03

162.39

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-1.95

-1.95

STN INTERNATIONAL LOGOFF AT 11:19:21 ON 16 APR 2003